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Substitute for form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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of

30

Complete if Known

Application Number	09/899059
Filing Date	07/06/2001
First Named Inventor	Craig A. Rosen
Art Unit	1647
Examiner Name	Guo-Liang Yu

Attorney Docket Number 075977-0122

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-4,002,531-	01-11-1977	ROYER	
	A2	US-4,179,337-	12-18-1979	DAVIS ET AL.	
	A3	US-4,433,092-	02-21-1984	NEMETH	
	A4	US-4,444,887-	04-24-1984	HOFFMANN	
	A5	US-4,474,893-	10-02-1984	READING	
	A6	US-4,631,211-	12-23-1986	HOUGHTEN	
	A7	US-4,676,980-	06-30-1987	SEGAL ET AL.	
	A8	US-4,708,781-	11-24-1987	VANDER	
	A9	US-4,714,681-	12-22-1987	READING	
	A10	US-4,716,111-	12-29-1987	OSBAND ET AL.	
	A11	US-4,741,900-	05-03-1988	ALVAREZ ET AL.	
	A12	US-4,816,397-	03-28-1989	BOSS ET AL.	
	A13	US-4,816,567-	03-28-1989	CABILLY ET AL.	
	A14	US-4,873,191-	10-10-1989	WAGNER ET AL.	
	A15	US-4,925,648-	05-15-1990	HANSEN ET AL.	
	A16	US-4,946,778-	08-07-1990	LADNER ET AL.	
	A17	US-4,980,286-	12-25-1990	MORGAN ET AL.	
	A18	US-4,994,560-	02-19-1991	KRUPER ET AL.	
	A19	US-5,112,946-	05-12-1992	MAIONE	
	A20	US-5,122,464-	06-16-1992	WILSON ET AL.	
	A21	US-5,194,392-	03-16-1993	GEYSEN	
	A22	US-5,223,409-	06-29-1993	LADNER ET AL.	
	A23	US-5,225,539-	07-06-1993	WINTER	
	A24	US-5,258,498-	11-02-1993	HUSTON ET AL.	
	A25	US-5,274,119-	12-28-1993	FRAZIER ET AL.	
	A26	US-5,314,995-	05-24-1994	FELL ET AL.	
	A27	US-5,336,603-	08-09-1994	CAPON ET AL.	
	A28	US-5,342,604-	08-30-1994	WILSON ET AL.	
	A29	US-5,349,052-	09-20-1994	DELGADO ET AL.	
	A30	US-5,349,053-	09-20-1994	LANDOLFI	
	A31	US-5,359,046-	10-25-1994	CAPON ET AL.	
	A32	US-5,399,349-	03-21-1995	PAUNESCU ET AL.	
	A33	US-5,403,484-	04-04-1995	LADNER ET AL.	
	A34	US-5,413,923-	05-09-1995	KUCHERLAPATI ET AL.	
	A35	US-5,427,908-	06-27-1995	DOWER ET AL.	
	A36	US-5,428,139-	06-27-1995	KIEFER ET AL.	
	A37	US-5,435,990-	07-25-1995	CHENG ET AL.	
	A38	US-5,436,146-	07-25-1995	SHENK ET AL.	
	A39	US-5,441,050-	08-15-1995	THURSTON ET AL.	
	A40	US-5,447,851-	09-05-1995	BEUTLER ET AL.	

Examiner Signature	Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DR/

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Substitute for form 1449/PTO			<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	09/899059
			Filing Date	07/06/2001
			First Named Inventor	Craig A. Rosen
			Art Unit	1647
			Examiner Name	Guo-Liang Yu
Sheet	2	of	30	Attorney Docket Number
075977-0122				

U.S. PATENT DOCUMENTS			
	Document Number		
A41	US-5,460,959-	10-24-1995	MULLIGAN ET AL.
A42	US-5,463,575-	10-31-1995	WHITE
A43	US-5,474,981-	12-12-1995	LEDER ET AL.
A44	US-5,478,925-	12-26-1995	WALLACH ET AL.
A45	US-5,480,971-	01-02-1996	HOUGHTEN ET AL.
A46	US-5,489,425-	02-06-1996	KRUPER ET AL.
A47	US-5,505,931-	04-09-1996	PRIBISH
A48	US-5,516,637-	05-14-1996	HUANG ET AL.
A49	US-5,530,101-	06-25-1996	QUEEN ET AL.
A50	US-5,545,806-	08-13-1996	LONBERG ET AL.
A51	US-5,565,332-	10-15-1996	HOOGENBOOM ET AL.
A52	US-5,569,825-	10-29-1996	LONBERG ET AL.
A53	US-5,571,698-	11-05-1996	LADNER ET AL.
A54	US-5,573,920-	11-12-1996	RANDLE
A55	US-5,580,717-	12-03-1996	DOWER ET AL.
A56	US-5,580,859-	12-03-1996	FELGNER ET AL.
A57	US-5,585,089-	12-17-1996	QUEEN ET AL.
A58	US-5,601,819-	02-11-1997	WONG ET AL.
A59	US-5,605,793-	02-25-1997	STEMMER
A60	US-5,612,460-	03-18-1997	ZALIPSKY
A61	US-5,622,929-	04-22-1997	WILLNER ET AL.
A62	US-5,625,126-	04-29-1997	LONBERG ET AL.
A63	US-5,633,425-	05-27-1997	LONBERG ET AL.
A64	US-5,641,670-	06-24-1997	TRECO ET AL.
A65	US-5,643,575-	07-01-1997	MARTINEZ ET AL.
A66	US-5,652,361-	07-29-1997	SIMON ET AL.
A67	US-5,658,727-	08-19-1997	BARBAS ET AL.
A68	US-5,661,016-	08-26-1997	LONBERG ET AL.
A69	US-5,693,622-	12-02-1997	WOLFF ET AL.
A70	US-5,696,239-	12-09-1997	WILSON ET AL.
A71	US-5,698,426-	12-16-1997	HUSE
A72	US-5,705,151-	01-06-1998	DOW ET AL.
A73	US-5,714,631-	02-03-1998	WILSON ET AL.
A74	US-5,733,743-	03-31-1998	JOHNSON ET AL.
A75	US-5,750,753-	05-12-1998	KIMAE ET AL.
A76	US-5,756,065-	05-26-1998	WILSON ET AL.
A77	US-5,766,883-	06-16-1998	BALLANCE ET AL.
A78	US-5,780,225-	07-14-1998	WIGLER ET AL.
A79	US-5,807,715-	09-15-1998	MORRISON ET AL.
A80	US-5,808,003-	09-15-1998	SUBRAMANIAN ET AL.
A81	US-5,811,097-	09-22-1998	ALLISON ET AL.
A82	US-5,811,238-	09-22-1998	STEMMER ET AL.

Examiner Signature	Date Considered
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Sheet	3	of	30	Application Number	09/899059
				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

U.S. PATENT DOCUMENTS					
		Document Number			
A83	US-5,814,318-	09-29-1998	LONBERG ET AL.		
A84	US-5,821,047-	10-13-1998	GARRARD ET AL.		
A85	US-5,830,721-	11-03-1998	STEMMER ET AL.		
A86	US-5,834,252-	11-10-1998	STEMMER ET AL.		
A87	US-5,837,458-	11-17-1998	MINSHULL ET AL.		
A88	US-5,876,969-	03-02-1999	FLEER ET AL.		
A89	US-5,885,793-	03-23-1999	GRIFFITHS ET AL.		
A90	US-5,916,771-	06-29-1999	HORI ET AL.		
A91	US-5,939,598-	08-17-1999	KUCHERLAPATI ET AL.		
A92	US-5,969,108-	10-19-1999	MCCAFFERTY ET AL.		
A93	US-5,985,660-	11-16-1999	GALY		
A94	US-6,075,181-	06-13-2000	KUCHERLAPATI ET AL.		
A95	US-6,114,598-	09-05-2000	KUCHERLAPATI ET AL.		

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
A96	WO-00/52028-A1	09-08-2000	HUMAN GENOME SCIENCES, INC.		
A97	WO-00/64465-A1	11-02-2000	HUMAN GENOME SCIENCES ET AL.		
A98	EP-0 171 496-B1	05-23-1993	RESEARCH DEVELOPMENT CORPORATION OF JAPAN		
A99	EP-0 173 494-A2	03-05-1986	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY		
A100	DE-196 39 601-A1	09-04-1997	BAYER AG		
A101	EP-0 239 400-B1	09-30-1987	MEDICAL RESEARCH COUNCIL		

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Sheet	4	of	30	Application Number	09/899059
				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
A102		EP-0 282 317-A2	09-14-1988	AMGEN INC.		
A103		EP-0 307 434-B2	03-22-1989	SCOTGEN BIOPHARMACEUTICALS, INC.		
A104		EP-0 322 094-B1	02-12-1992	DELTA BIOTECHNOLOGY LIMITED		
A105		EP-0 367 166-A1	05-09-1990	TAKEDA CHEMICAL INDUSTRIES, LTD.		
A106		EP-0 394 827-A1	10-31-1990	F. HOFFMAN-LA ROCHE AG		
A107		EP-0 396 387-B1	11-07-1990	RESEARCH DEVELOPMENT FOUNDATION		
A108		EP-0 399 816-B1	12-20-1995	MERCK & CO., INC.		
A109		EP-0 401 384-A1	12-12-1990	KIRIN-AMGEN, INC.		
A110		EP-0 413 622-B1	02-20-1991	RHONE-POULENC RORER S.A.		
A111		EP-0 439 095-A2	07-31-1991	BRISTOL-MYERS SQUIBB CO.		
A112		EP-0 506 477-B1	09-30-1992	MERCK & CO., INC.		
A113		EP-0 519 596-A1	12-23-1992	MERCK & CO., INC.		
A114		EP-0 592 106-B1	04-13-1994	IMMUNOGEN INC.		
A115		EP-0 682 110-A1	11-15-1995	CHIRON CORP.		
A116		WO-86/01533-A1	03-13-1986	CELLTECH LIMITED		
A117		WO-86/05807-A1	10-09-1986	CELLTECH LIMITED		
A118		WO-87/01130-A1	02-26-1987	STAUFFER CHEMICAL CO.		
A119		WO-87/02671-A1	05-07-1987	INTERNATIONAL GENETIC ENGINEERING, INC.		
A120		WO-87/04462-A1	07-30-1987	CELLTECH LIMITED ET AL.		
A121		WO-89/01036-A1	02-09-1989	CELLTECH LIMITED		
A122		WO-89/02036-A1	03-09-1989	UPAT GMBH & CO.		
A123		WO-89/10404-A1	11-02-1989	CELLTECH LIMITED		
A124		WO-89/12624-A1	12-28-1989	CETUS CORPORATION		
A125		WO-90/02809-A1	03-22-1990	PROTEIN ENGINEERING CORP.		
A126		WO-90/11092-A1	10-04-1990	VICAL, INC., ET AL.		
A127		WO-90/13649-A1	11-15-1990	GENENTECH, INC.		
A128		WO-91/00360-A1	01-10-1991	MEDAREX, INC.		
A130		WO-91/06570-A1	05-16-1991	THE UNIVERSITY OF MELBOURNE		

Examiner Signature	Date Considered
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				Art Unit	1647
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A131		WO-91/06657-A1	05-16-1991	CELLTECH LIMITED	T ⁶
A132		WO-91/09967-A1	07-11-1991	CELLTECH LIMITED	
A133		WO-91/10737-A1	07-25-1991	MOLECULAR AFFINITIES CORP.	
A134		WO-91/10741-A1	07-25-1991	CELL GENESYS, INC.	
A135		WO-91/14438-A1	10-03-1991	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
A136		WO-92/01047-A1	01-23-1992	CAMBRIDGE ANTIBODY TECHNOLOGY LIMITED	
A137		WO-92/05793-A1	04-16-1992	MEDAREX, INC.	
A138		WO-92/06180-A1	04-16-1992	UNIVRSITY OF CONNECTICUT	
A139		WO-92/06194-A1	04-16-1992	CONSIGLIO NAZIONALE DELLE RICERCHE	
A140		WO-92/08495-A1	05-29-1992	ABBOTT BIOTECH, INC.	
A141		WO-92/08802-A1	05-29-1992	CETUS CORPORATION	
A142		WO-92/18619-A1	10-29-1992	THE SCRIPPS RESEARCH INSTITUTE	
A143		WO-92/22324-A1	12-22-1992	XOMA CORPORATION	
A144		WO-92/22635-A1	12-23-1992	UNIVERSITY OF CONNECTICUT ET AL.	
A145		WO-93/11236-A1	06-10-1993	MEDICAL RESEARCH COUNCIL ET AL.	
A146		WO-93/14188-A1	07-22-1993	THE REGENTS OF THE UNIVERSITY OF MICHIGAN	
A147		WO-93/17715-A1	09-16-1993	UNIVERSITY OF OF TEXAS SYSTEM, BOARD OF REGENTS ET AL.	
A148		WO-93/20221-A1	10-14-1993	ALEXANDER YOUNG	
A149		WO-93/21232-A1	10-28-1993	RESEARCH DEVELOPMENT FOUNDATION	
A150		WO-93/25788-A1	12-23-1993	HOPPE AG	
A151		WO-94/08598-A1	04-28-1994	ADVANCED TISSUE SCIENCES, INC.	
A152		WO-94/12649-A1	06-09-1994	GENZYME CORPORATION	
A153		WO-94/12650-A1	06-09-1994	TRANSKARYOTIC THERAPIES, INC.	

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				Attorney Docket Number	075977-0122

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
A154	WO-95/06058-A1		03-02-1995	ROYAL FREE HOSPITAL SCHOOL OF MEDICINE		
A155	WO-95/15982-A1		06-15-1995	GENZYME CORP.		
A156	WO-95/20401-A1		08-03-1995	TRUSTEES OF BOSTON UNIVERSITY		
A157	WO-96/04388-A1		02-15-1996	SMITHKLINE BEECHAM PLC, ET AL.		
A158	WO-96/26736-A1		09-06-1996	LUDWIG INSTITUTE FOR CANCER RESEARCH ET AL.		
A159	WO-96/29411-A1		09-26-1996	TRANSKARYOTIC THERAPIES, INC.		
A160	WO-96/33735-A1		10-31-1996	CELL GENESYS, INC.		
A161	WO-96/34095-A1		10-31-1996	HUMAN GENOME SCIENCES, INC.		
A162	WO-96/34096-A1		10-31-1996	CELL GENESYS, INC.		
A163	WO-96/39515-A1		12-12-1996	HUMAN GENOME SCIENCES, INC.		
A164	WO-97/03394-A1		01-30-1997	ITT INDUSTRIES LIMITED		
A165	WO-97/33899-A1		09-18-1997	HUMAN GENOME SCIENCES, INC.		
A166	WO-97/33904-A1		09-18-1997	HUMAN GENOME SCIENCES, INC., ET AL.		
A167	WO-97/34911-A1		09-25-1997	HUMAN GENOME SCIENCES, INC.		
A168	WO-98/02543-A1		01-22-1998	CHUGAI RESEARCH INSTITUTE FOR MOLECULAR MEDICINE, INC.		ABS.
A169	WO-98/06842-A1		02-19-1998	SCHERING CORP.		
A170	WO-98/07832-A1		02-26-1998	LUDWIG INSTITUTE FOR CANCER RESEARCH ET AL.		
A171	WO-98/07880-A1		02-26-1998	HUMAN GENOME SCIENCES, INC.		
A172	WO-98/11779-A1		03-26-1998	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		
A173	WO-98/16654-A1		04-23-1998	JAPAN TOBACCO, INC.		

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Sheet	7	of	30	Application Number	09/899059
				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

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	A174	WO-98/18921-A1	05-07-1998	HUMAN GENOME SCIENCES, INC.		
	A175	WO-98/24893-A1	06-11-1998	ABGENIX, INC.		
	A176	WO-98/30693-A2	07-16-1998	HUMAN GENOME SCIENCES, INC.		
	A177	WO-98/32466-A1	07-30-1998	POLYMASC PHARACEUTICALS PLC		
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	A179	WO-98/41629-A1	09-24-1998	HUMAN GENOME SCIENCES, INC.		
	A180	WO-98/46645-A1	10-22-1998	PETER KUFER ET AL.		
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	A184	WO-98/56892-A1	12-17-1998	HUMAN GENOME SCIENCES, INC.		
	A185	WO-99/04813-A1	02-04-1999	BRIGHAM & WOMEN'S HOSPITAL, INC. ET AL.		
	A186	WO-99/23105-A1	05-14-1999	HUMAN GENOME SCIENCES, INC.		
	A187	WO-98/30694	07-16-1998	HUMAN GENOME SCIENCES, INC.		

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			Examiner Name	Guo-Liang Yu
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075977-0122				

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	A191	A. CREASEY et al., "Biological Effects of Recombinant Human Tumor Necrosis Factor and its Novel Muteins on Tumor and Normal Cell Lines," Cancer Research, Vol. 47, Jan. 1, 1987, pgs. 145-149.		
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	A195	A. D. MILLER, "Retrovirus Packaging Cells," Human Gene Therapy, Vol. 1, (1990), pgs. 5-14.		
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				Art Unit	1647
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Sheet	9	of	30		

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	A203	A. TRAUNECKER et al., "Soluble CD4 molecules neutralize human immunodeficiency virus type 1," NATURE, Vol. 331, Jan. 7, 1988, pgs. 84-86.			
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			Filing Date	07/06/2001
			First Named Inventor	Craig A. Rosen
			Art Unit	1647
			Examiner Name	Guo-Liang Yu
(use as many sheets as necessary)			Attorney Docket Number	075977-0122
Sheet	12	of	30	

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				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
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			First Named Inventor	Craig A. Rosen
			Art Unit	1647
			Examiner Name	Guo-Liang Yu
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				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

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			First Named Inventor	Craig A. Rosen
			Art Unit	1647
			Examiner Name	Guo-Liang Yu
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				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
				Attorney Docket Number	075977-0122

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				Art Unit	1647
				Examiner Name	Guo-Liang Yu
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	A463	T. PATERSON et al., "Approaches to maximizing stable expression of alpha-1-antitrypsin in transformed CHO cells," Appl. Microbiol. Biotechnol., Vol. 40, (1994), pgs. 691-698.	
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				Filing Date	07/06/2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	Guo-Liang Yu
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	A476	Y. GLUZMAN, "SV40-Transformed Simian Cells Support the Replication of Early SV40 Mutants," Cell, Vol. 23, Jan. 1981, pgs. 175-182.	
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